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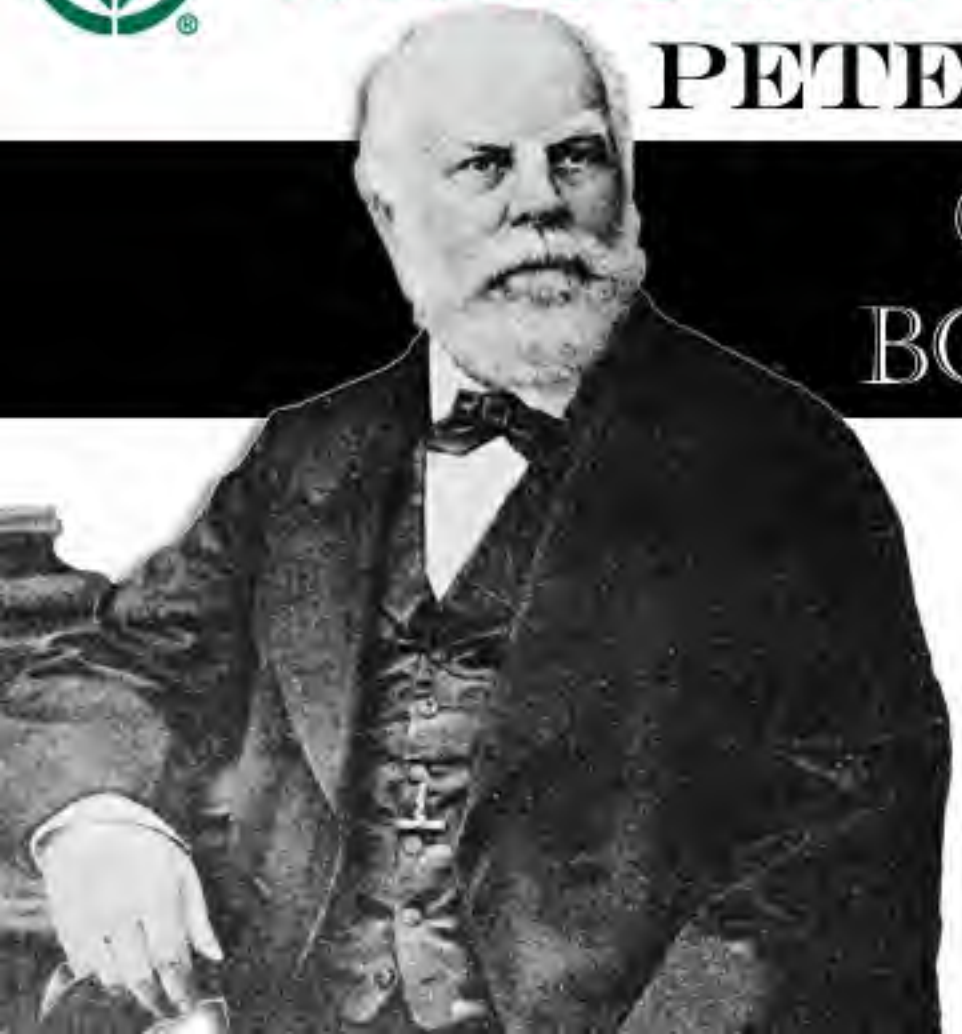

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Tsuga Williamsonii

10 March 1865

×4

pubescence of leaf

×10

1871
HOOKER & COOKE'S
Museum Botanicum Kewense
South West Corner
Museum Botanical Garden
Gloucester Cheeseman Parker

0 1 2 3 4 5 6 7 8 9 10
cm
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Missouri Botanical Garden

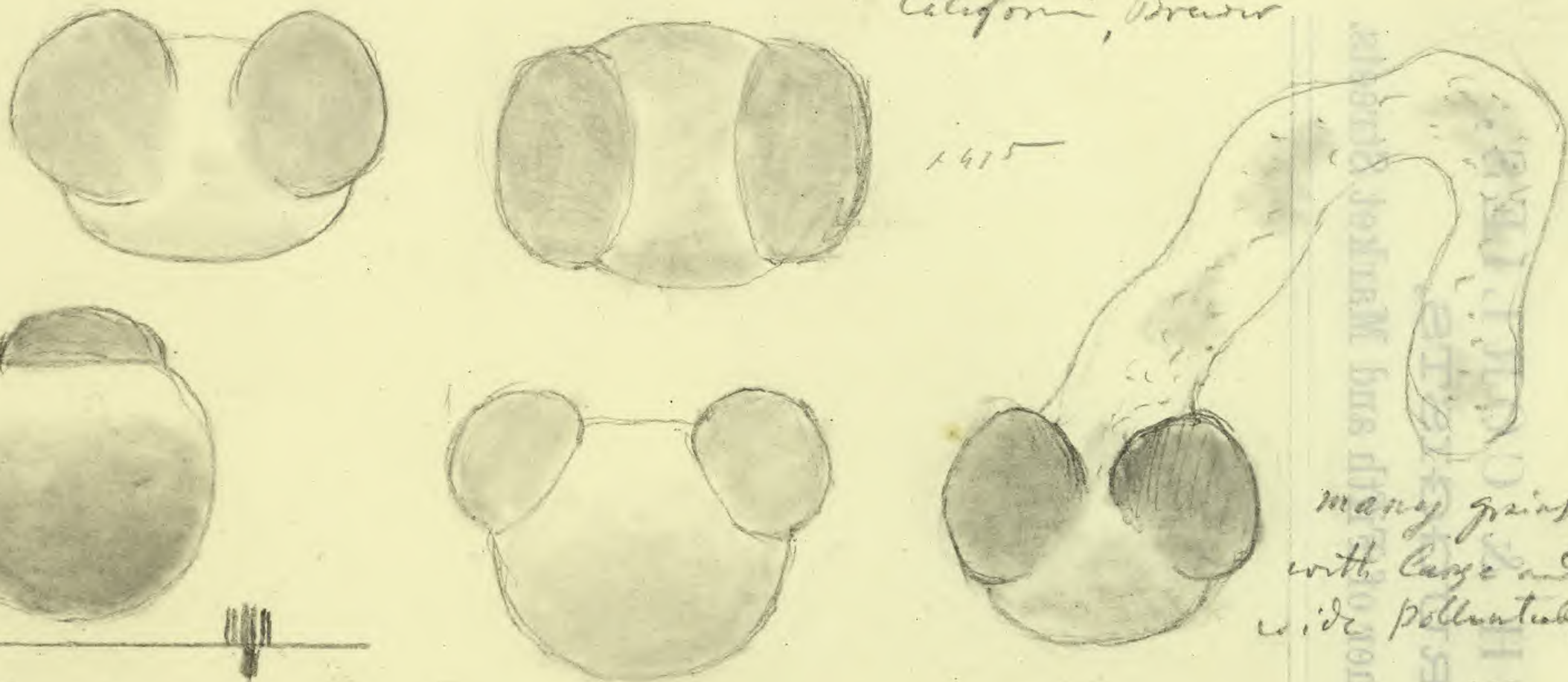
10636

LEITCH & CORLIES,
DRUGGISTS,
South-West Corner of Fifth and Market Streets.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Tsuga williamsonii 10 March 1865

Calif. Oreg.



×415

many grains with large and wide pollen tubes

Pollen × 415

0,035 – 0,040 // mostly about 0,037 long

$\frac{30-34}{415} = 0.072-0.082$ mm

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upper side

Senga Willemsen
Calif
Scale of leaves
x 30

March 11th 1965

Spaked

very old leaf

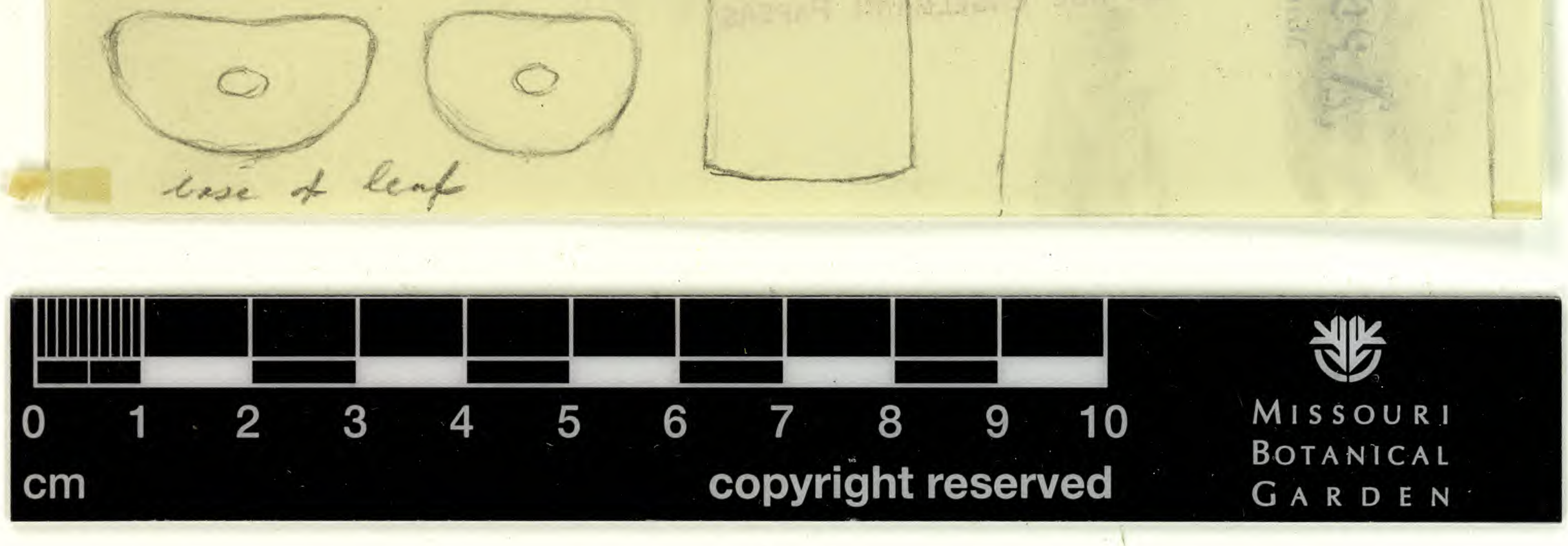
leaf x 4
upper side obtusely
carinate

point

x 30

base

base & leaf



10638

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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cm
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5 tab

J. Pittmann

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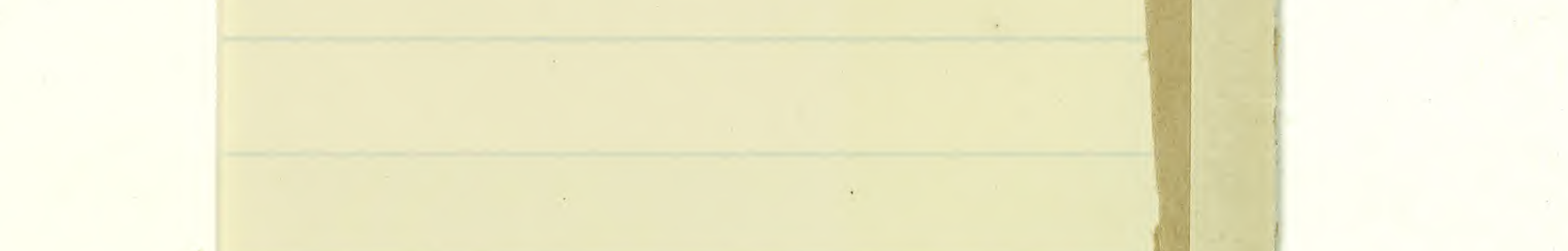

Tsuga Pattoniana

March 20 1881

×30

S. Wilton, Aug 21 1880

MISSOURI BOTANICAL GARDEN
GRAY HERBARIUM
SEP 13 1921
RECEIVED

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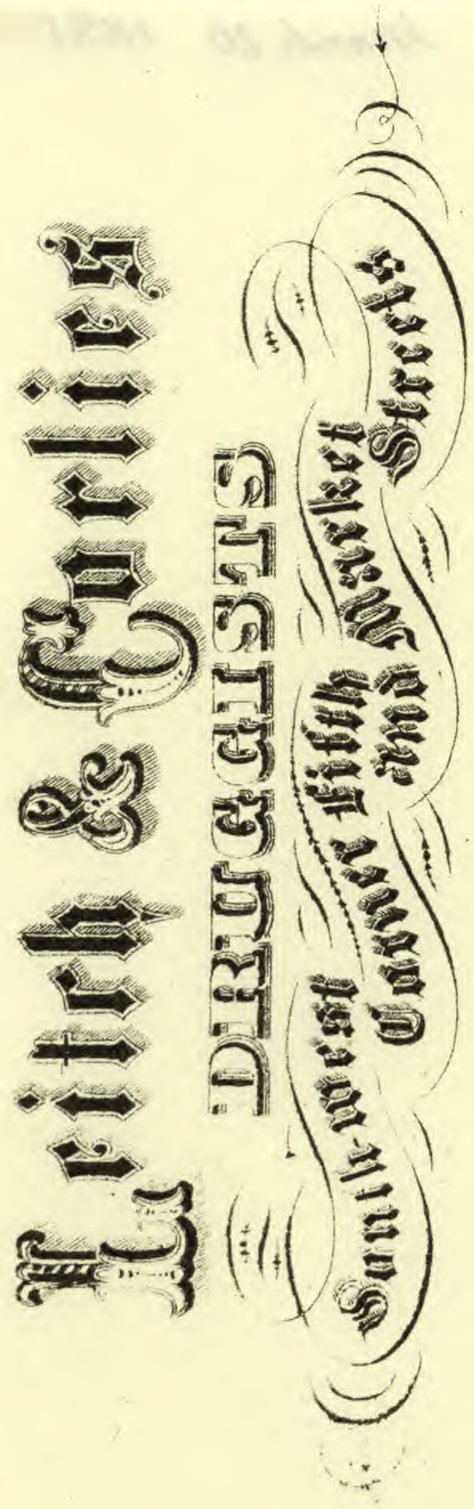
10640



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Hedera Rattonsana
Brewer 2007

May 29 1878

x 30

hypoderm all around
interrupted by lines
of stomata

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cm
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10641

No.
1006 Olive
Street.

CHEMICAL LABORATORY

PHARMACY

PURE WINES AND LIQUORS FOR MEDICAL USE.

Cor. 5th
and
Walnut St.

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Abies religiosa Mexico Sand, Hamb
HB Berg July 1869
accepta Abies Douglasii
fol. pulvilat. acutis.

10642
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1491-1500

reins zur Beförderung des Gartenbaues, 1860, Nos. 1–52—1861, Nos. 1–6, Berlin, *from the Society;* Atti della Societa Ital. di Scienze Nat., Milano, Vol. II., Fasc. 2, 1860, *from the Society;* Atti dell I. R. Istituto Veneto, T. V., Ser. iii., Disp. 10—T. VI., Ser. iii., Disp. 1–3, 1860–1, *from the Society;* Visir-und Recheninstrumente von Ernst Sedlaczeh, Wien, 1856,—Rechenschieber, von E. Sedlaczeh, Wien, 1856,—Kompendium der ebenen und sfärischen Trigonometrie von E. Sedlaczeh, Wien, 1856, *from Mr. Senoner;* L'Ortolano, Giornale Popolare d'Orticultura, Trieste, Anno I. 1–12, III. 1–9, 1859–60,—Allocuzione da Prof. Adolfo Stopice, Trieste, 1860, *from the Society;* Fr. Ambrosii Flora Tiroliæ Australis, Vol. II., Pt. 4, *from the Author;* Verhandl. des Naturh. Vereins, Bonn, Jahrg. XVII., 1–2, 1860, *from the Society;* Sitzungsb. der K. K. Akad. der Wissenchaften, Wien, Band XLII., No. 22–28, 1860, *from the Society;* Nachrichten von der Georg-Augusts-Univ. u. der K. Gesellsch. der Wissensch., Göttingen, 1860, No. 1–29, *from the Society;* Bull. de la Société Linnéenne de Normandie, Vol. V., 1859–60, Caen, 1861, *from the Society;* Mém. de l'Acad. Imperiale de Metz, Ann. XLI., 1859–60, *from the Academy;* Jahrbücher des Vereins für Naturk. in Nassau, XIV. Heft, Wiesbaden, 1859, *from the Society;* Dr. J. C. Ed. Hoser's Rückblicke, Prag, 1848, von Dr. Weitenweber,—Sitzungsb. der K. böhm. Gesellsch. der Wissenschaften, Prag, 1859, Juli–Dec.—1860, Jan.–Juni, *from the Society;* I. Bericht des Offenbacher Vereins für Naturk, 1860, *from the Society;* Würzburger Medicin. Zeitschrift, II. Band, 1–2 Heft, 1861, *from the Society;* Der Zoologische Garten, von Dr. D. F. Weinland, Jahrg. II., No. 1–6, 1860–61, *from the Editor;* XX. Bericht über das Museum Francisco-Carolinum, Linz, 1860, *from the Institution;* Monatsb. der K. Preuss. Akad. der Wissenschaften, 1860, Berlin,—General Register, 1836-58, Berlin 1860, *from the Academy;* Gelehrte Anzeigen, Vol. 49 & 50,—Sitzungsb. des K. bayer. Akad. des Wissenschaften, 1860, Heft 1–3, München,—Verzeichniss der Mitglieder, 1860,—Bedeutung der Sanskritstudien, von Dr. Wilh. Christ, 1860,—Denkrede auf. Alex. von Humboldt, von C. F. P. von Martius, 1860,—Grenzen und Grenzgebiete der physikalischen Forschung, von Dr. C. Harless, 1860, *from the Royal Academy;* Proc. Acad. Nat. Sciences, Philad., May, 1861, *from the Academy;* 43d Ann. Rep. of the Trustees of the New York State Library, Albany, 1861, *from the Trustees*

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Dr. Koch presented specimens of quartz and of the silicious conglomerate from Madison County mentioned in Dr. Hilgard's letter.

Dr. Engelmann stated that the mean temperature of July (77.°5) had been lower than the usual mean of that month, and that the fall of rain during the same month (2.04 inches) was about one-half less than usual.

Dr. Wislizenus stated that the mean of atmospheric electricity of July had been 3.5° less than that of the month previous, and that the amount had been gradually decreasing since winter.

August 19, 1861.

The President, Dr. ENGELMANN, in the chair.

Six members present.

A letter was read from A. F. Bandelier, Jr., Highland, Ill., Aug. 1, 1861, communicating meteorological observations at Highland.

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GEORGE ENGELMANN PAPERS
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cm 0 1 2 3 4 5 6 7 8 9 10
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MISSOURI BOTANICAL GARDEN

H. Bolander, San Francisco

March 1864

No 3 x x Abies Douglasii

The bundle thus marked contains flowering branches in large fruit, affording a good chance to study the foliage. This tree grows very high and stout, forming dense woods with oaks, especially Quercus densiflora Hook & Arn & Q. Kelloggii Newb. Its wood is white, soft; is excellent for building purposes, but it will not last beyond 2 years if driven in the ground, for making fences (pickets). This tree forms dense woods on the eastern slope of the most western range of hills in Marin Co, it ceases to grow a little before reaching the crest of that range to the Pacific, so that only its highest tops are exposed to the strong western winds. Cones pendent, sessile and dropping every year, except those of the younger trees which do not come to maturity. (very imperfect)

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN FARLOWS

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10644

Just visited the grove of tall redwoods
(Sequoia sempervirens) known as
the Big Basin Redwoods. Here we
will make
my collection, thereby testing
the
Just a short 45 m.
from
San Francisco with
the
Southern Pacific R.R.
Co.

The trees are
the tallest
I have seen, very dense woods,
with rather
small trunks.
A about 45 m.
from
San Francisco with
the
Southern Pacific R.R.
Co.

The trees are the tallest I have seen
in the trees forming with Sequoia
sempervirens, very dense woods
of rather small trunks. (but no Redwood in the first
range)
In the Coast Range it is called
California Laurel

Collected 12/3 1864.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Pseudotsuga Douglasii macrocarpa is also found on the San Gabriel Mountains, J. Muir.

10645

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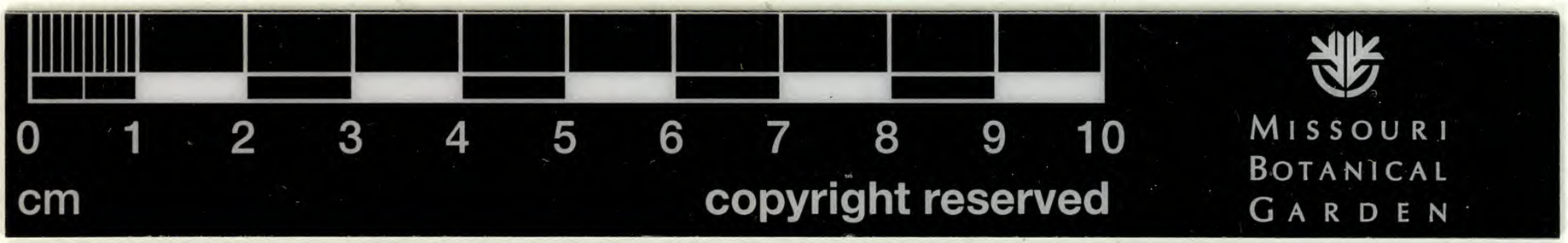

Sierra Valley, Cal. Oct. 20. '95

OCT

My dear friend,

On the side of Cinder Cone, a short cone near Shasta I found a curiously depressed specimen of Douglas Spruce. Very short conical. 30 ft. high and 60 wide at base. Trailing limbs on the lower side 40 ft. long. Only a few cones to be seen. Limbs very slender drooping & pliant. Trunk 4 or 5 feet thick at base, tapering fast with many limbs. Wonder if this is the spruce you are desirous of knowing?

Yours ever J. G. Lemmon

10646

POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POSTAGE ONE CENT

TRUCKEE

Prof. Asa Gray.

Harvard Herbarium.

Cambridge,

Mass.

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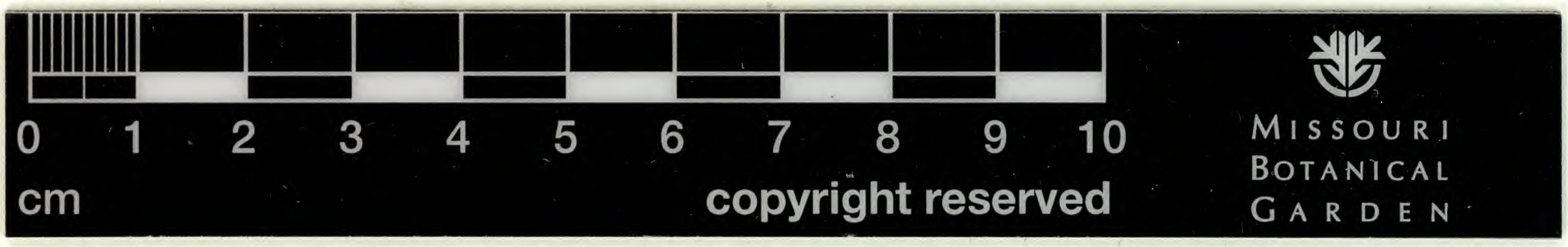


A Abies Douglasii (Sabine) Lindley in Penny Cyclop. I p. 32
Pinus —— . Hook fl. Bor. II. p. 162 t. 183
Watt. Sylv. III. p. 129. t. 115.

—— —— Lamb Pin vol. III. t. 90. ed. 2. II. t. 47 & III. t. 90

~~Abies~~ —— Brigelow in Whipple's Rep. p. 17.

Abies —— Torr in Bot Whipple p. 141

~~P~~ —— Newberry in Pac R R. VI Bot p. 54 c. icon.

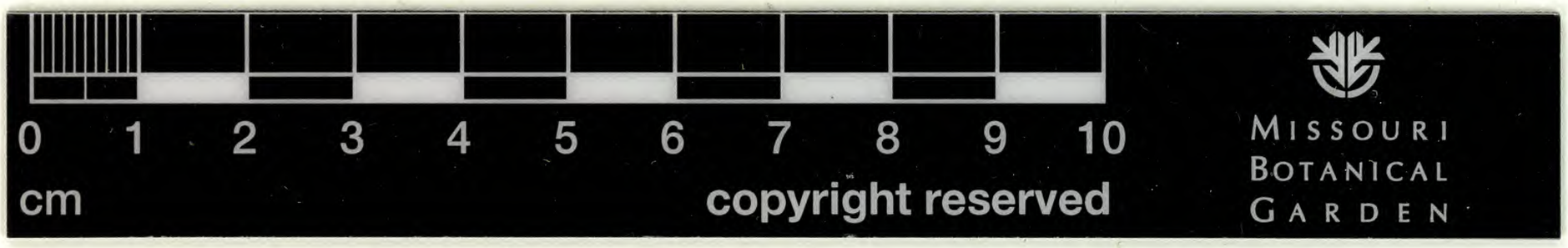
—— —— Torrey in Bot. Mound p. 210

Tsuga —— Carrière, Conif. p. 192

Picea —— Link Linnaea XV. 524

Abies —— Loud. Arb. IV. p. 2319 t. 2230

Pinus —— Endl Conif. 87.



10647

Syn. A. laevis California - Hort. fid. Lemm.

A. tax-folei Lemm.

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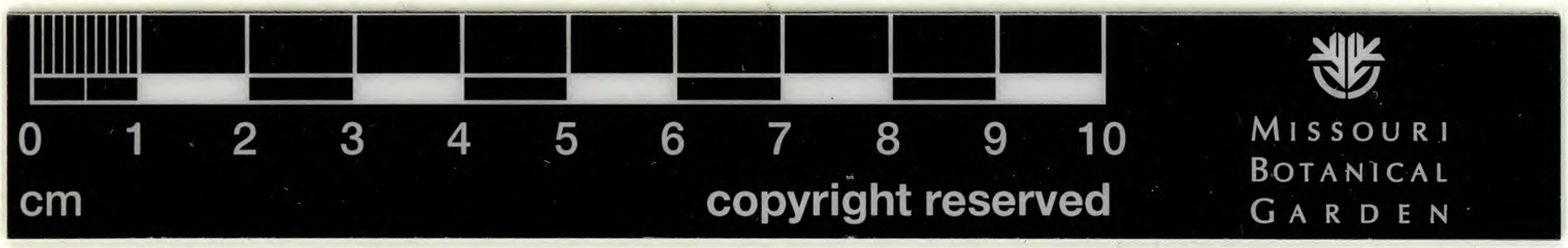

Pseudotsuga Carr. Conif ed. 2. 256 Abies sect Tsuga Spach Hist

Conifers trees with flattened, ~~calcine~~, somewhat 2-ranked, distichously petioled, leaves, leaving on the branchlets scarcely prominent transverse cicatrices of the leaves of the previous years; stamens flowering from the axils with a rounded spur-like process; cells opening longitudinally; pollen ovoid-globose; cones pendulous, maturing in one season, their ~~scales~~ bracts persistent on the axis; seeds without basal wings, not separating from the wing. (or: eventually breaking off the wing) — very large trees with a very thick bark and reddish yellowish wood

wounding vile, which is characterized from the rest of the allied genera, and from all other conifers woods by the absence of spiral vessels, otherwise as in the family

2 Resinous; the leaves persistent, with two white lines beneath

10648

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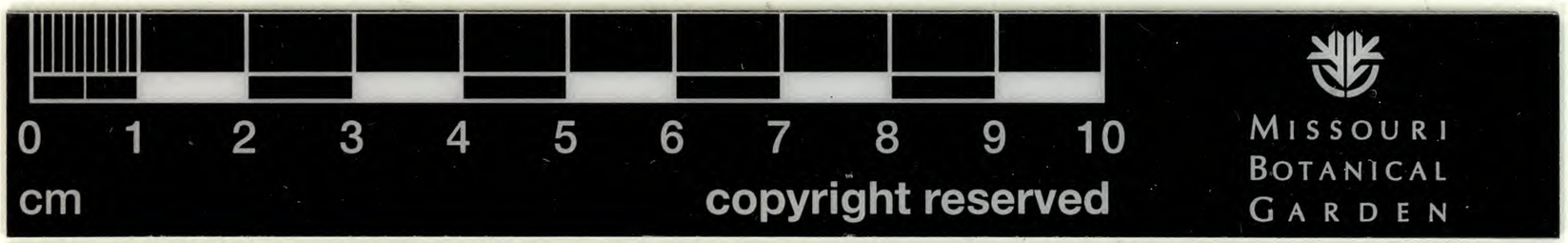

1486 – 1507

Sect Peuroides Spach

(–6–8 Cotyled. gl.)

Gen Peuroides Engler Bot Jahrb 1868 p. 484 vol 26

Pseudotsuga Carrière, Conif. ed 2 56. 1867

10649

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George Engelmann Papers

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Pseudotsuga Douglasii
Oregon Yellow Fir
June 21 1878

spiral vessels
abundant ×415

Diam 0.021 – 0.024
mm

= Abies amabilis N282 Agric Depart

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cm
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Henry T. Rohlfing,

APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

No. ..... *Date,* *187*

℞

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10650

Geo. Engelmann, M. D.,
No. 3003 Locust Street.

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